

AMENDMENTS TO THE CLAIMS

The following listing of Claims will replace all prior versions and listings of Claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A wireless communication system comprising:
a leaky transmission path arranged in an indoor space to function as an antenna;
~~a wireless terminal unit arranged in the indoor space; and~~
a wireless base station unit making wireless communication with a the wireless terminal unit through the leaky transmission path, in an orthogonal frequency division multiplex scheme;
~~wherein the wireless communication between the wireless terminal unit and the wireless base station unit is made in orthogonal frequency division multiplex modulation~~ the leaky transmission path is arranged such that when a plurality of incoming waves from a plurality of slots of the leaky transmission path are received by the wireless terminal unit, a time difference of the plurality of incoming waves occupying a main power, of the plurality of incoming waves, is in a guard section of the orthogonal frequency division multiplex scheme.
2. (Cancelled)
3. (Currently Amended) The wireless communication system according to claim 12, wherein the leaky transmission path is arranged to meander or arranged

zigzag or spirally as a single transmission path in the indoor space, one end of the leaky transmission path is connected to the wireless base station unit, and the other end thereof is connected to a terminal load.

4. (Currently Amended) ~~A~~The wireless communication system according to claim 1, wherein the transmission path is composed of an antenna array cable comprising:

an antenna array cable arranged in an indoor space to function as an antenna; and

a wireless base station unit making wireless communication with a wireless terminal unit through the antenna array cable, in an orthogonal frequency division multiplex scheme,

wherein the antenna array cable is arranged such that when a plurality of incoming waves from a plurality of antenna units of the antenna array cable are received by the wireless terminal unit, a time difference of the plurality of incoming waves occupying a main power, of the plurality of incoming waves, is in a guard section of the orthogonal frequency division multiplex scheme.

5. (Original) The wireless communication system according to claim 4, wherein the antenna array cable comprises a single high frequency transmission path, a plurality of high frequency couplers and antennas provided in a middle of the high frequency transmission path, the antenna array cable is arranged to meander or

arranged zigzag or spirally in the indoor space, and one end of the antenna array cable is connected to the wireless base station unit.

6. (Currently Amended) The wireless communication system according to claim 41, wherein the antenna array cable ~~transmission path~~ is composed of a plurality of transmission paths arranged in parallel to be spaced from each other with a predetermined interval in the indoor space, one end of each of the plurality of transmission paths is connected to a power distributor-synthesizer, and the power distributor-synthesizer is connected to the wireless base station unit.

7. (Cancelled)

8. (Currently Amended) The wireless communication system according to claim 41, wherein the antenna array cable ~~transmission path~~ is arranged to cross front and rear parts of a plurality of showcases arranged in a room.

9. (New) A wireless communication system that uses a leaky transmission path comprising:

_____ a wireless terminal unit; and _____
_____ a wireless base station unit that makes wireless communication with the wireless terminal unit in an orthogonal frequency division multiplex scheme, the leaky transmission path being connected to the wireless base station unit as an antenna, and being arranged such that when a plurality of incoming waves from a plurality of slots are

received by the wireless terminal unit, a time difference of the plurality of incoming waves occupying a main power, of the plurality of incoming waves, is in a guard section of the orthogonal frequency division multiplex scheme.

10. (New) The system according to claim 9 wherein the leaky transmission path is arranged to at least one of meander, zigzag, and spiral as a single transmission path in an indoor space, one end of the leaky transmission path being connected to the wireless base station unit, and the other end thereof being connected to a terminal load.

11. (New) The system according to claim 9 wherein the leaky transmission path is composed of a plurality of transmission paths arranged in parallel to be spaced apart from each other by a predetermined interval in the indoor space, one end of each of the plurality of transmission paths being connected to a power distributor-synthesizer, and the power distributor-synthesizer being connected to the wireless base station unit.

12. (New) The system according to claim 9 wherein the leaky transmission path is arranged to cross front and rear parts of a plurality of showcases arranged in a room.

13. (New) The wireless communication system according to claim 1 wherein the leaky transmission path is composed of a plurality of transmission paths arranged in parallel to be spaced apart from each other by a predetermined interval in the indoor space, one end of each of the plurality of transmission paths being connected

to a power distributor-synthesizer, and the power distributor-synthesizer being connected to the wireless base station unit.

14. (New) The wireless communication system according to claim 1 wherein the leaky transmission path is arranged to cross front and rear parts of a plurality of showcases arranged in a room.

15. (New) A wireless communication system for an indoor space comprising:
a wireless terminal unit;
a wireless base station unit that communicates with said wireless terminal unit in an orthogonal frequency division multiplex scheme; and
a leaky transmission cable including a plurality of slots that acts as an antenna and that communicates with said wireless base station unit and said wireless terminal unit, said leaky transmission cable is arranged so that said wireless terminal unit obtains a main power from strongly received waves from said plurality of slots and where a guard section of the orthogonal frequency division multiplex scheme is based on a time difference of reception of said strongly received waves.

16. (New) The system of claim 15 further comprising:
a terminal load,
wherein said leaky transmission cable is arranged according to at least one of a meandering, a zigzag, and a spiral configuration as a single transmission cable

in the indoor space, one end of said leaky transmission cable being connected to the wireless base station unit, and another end thereof connected to said terminal load.

17. (New) The system of claim 15 further comprising:
a power distributor-synthesizer that communicates with the wireless base station unit,
wherein said leaky transmission cable comprises a plurality of transmission paths arranged in parallel to be spaced apart from each other by a predetermined interval in the indoor space, one end of each of the plurality of transmission paths being connected to said power distributor-synthesizer.